JASMINA HRANISAVLJEVIC

EDUCATION

Ph.D., Chemistry**,** May 1997, Rensselaer Polytechnic Institute, Troy, NY
Thesis Title: "High-Temperature Kinetics of Elementary Reactions of Importance to Waste Incineration"
Focus:

- Kinetics of O-atom reactions with chlorinated hydrocarbons in the gas phase from 300 to 1500 K using the high-temperature photochemistry (HTP) technique
- Kinetics of metallic species oxidation reactions in the gas phase from 300 to 1500 K using the high-temperature fast-flow reactor (HTFFR)

M.S., Chemistry**,** July 1992, University of Minnesota, Minneapolis, MN
Thesis Title: "Chemistry of Mixed-Metal-Gold Clusters with Isonitrile Ligands"
Focus: Synthesis and characterization of a novel cluster compound; proposed formula: $Pt_2Au_{16}P_{16}C_{296}H_{244}N_6O_{12}$

B.S., Chemistry**,** October 1989, university of Belgrade, Belgrade, Yugoslavia

EXPERIENCE

MOTOROLA INC, staff scientist, April 1998-February 2001

- Member of Design for Environment team: worked on problems related to environmental regulations of interest to electronic industry; co-authored a specification for environmentally friendly packaging and printed material; involved in development of Pb-free soldering capability: performed metallurgical analysis of solder joints in the series of prototype products processed with Pb-free solder; reverse-engineered solder joints in "Pb-free" competitor product; thermal analysis of Bi-containing Pb-free soldering alloys
- Performed materials failure analysis on cellular phone products and components: solving factory line, field return, and design problems concerning plastics, adhesives, printed circuit boards, etc.

ARGONNE NATIONAL LABORATORY, postdoctoral fellow, May 1997-April 1998

- Performed *ab initio* electronic structure and transition state theory calculations for small organic species using Hyperchem and Gaussian 94 computational packages
- Participated in kinetic studies of $CF_3 + H_2$, $CF_3H + H$, and CF_3Br thermal decomposition reactions by shock tube technique

PUBLICATIONS

(1) E. Bradley, III and J. Hranisavljevic, ***50th Electronic Components and Technology Conference, Proceedings,*** Las Vegas, NV, May 2000, for publication in ***IEEE Transactions For Electronic Packaging Manufacturing***
(2) J. Hranisavljevic, S. S. Kumaran, and J. V. Michael; ***Journal of Physical Chemistry,*** **1998**, ***102***, 7668
(3) J. Hranisavljevic, S. S. Kumaran, and J. V. Michael; ***27th Symposium (International) on Combustion [Proceedings]*** **1998,** 159
(4) J. Hranisavljevic, J. J. Carroll, M. -C. Su, and J. V. Michael; ***International Journal of Chemical Kinetics***, **1998,** ***30***, 859
(5) J. Hranisavljevic and A. Fontijn; ***Journal of Physical Chemistry,*** **1997,** ***101*****, 2323**
(6) D. P. Belyung, J. Hranisavljevic, G. M. Santana, O. Kashireninov, A. Fontijn, and

(7) P. Marshall; ***Journal of Physical Chemistry,*** **1996,** ***100*****, 17835**
(8) J. Hranisavljevic and A. Fontijn; ***Journal of Physical Chemistry,*** **1995,** ***99*****, 12809**
(9) M.-C. Su, K. P. Lim, J. V. Michael, J. Hranisavljevic, Y. M. Xun, and A. Fontijn; ***Journal of Physical Chemistry,*** **1994,** ***98*****, 8411**
(10) J. Hranisavljevic, G. Y. Adusei, Y. M. Xun, and A. Fontijn; ***Combustion Science and Technology*****, 1994,** ***101*****, 231**